

B1 the extruder, and the grafted, homogenized material is extruded onto the electrical cable and cross-linked in the presence of water or steam.

IN THE CLAIMS:

Please enter the following amended claims:

Sub C1
B2
1. (Twice Amended) A method for producing electrical cables coated with an insulating layer of cross-linked polyethylene, in which a polyethylene granulate is mixed with a liquid silane-containing cross-linking agent, the granulate mixture thus prepared is melted in an extruder and extruded onto the electrical cable, and the extruded coating is cross-linked in the presence of water or steam, wherein said polyethylene granulate comprises a polyethylene homopolymer and a copolymer of ethylene, and wherein the copolymer content in the insulating coating on the cable is between 1 and 8% by weight.

Sub C3
B3
6. (Twice Amended) A method as claimed in claim 4, wherein the granular polyethylene homopolymer material alone is coated with the liquid cross-linking agent in a compounding system, melted, grafted, homogenized and subsequently regranulated, and the regranulate and a granular copolymer of ethylene, and a catalyst, are placed into an extruder, where the mixture is melted, homogenized and extruded onto the electrical cable and cross-linked.

7. (Twice Amended) A method as claimed in claim 1, wherein the copolymer of ethylene used is an ethylene butyl acrylate (EBA), an ethylene ethyl acrylate (EEA) or an ethylene methyl acrylate (EMA).